

# **ABSTRACT**

5 A commutator comprising a first and a second plate arranged to move relative  
to one another is provided. One of the plates comprises at least one input port  
arranged to allow a fluid to enter the commutator and one of the plates comprises at  
least one output port arranged to allow a fluid to exit the commutator. At least one  
of the plates comprises at least one connector, which is capable of connecting at  
least one input port to at least one output port. The plates are arranged such that the  
10 plates move relative to one another and the connector periodically connects the input  
port to the output port.